

**COMPACT OPTICAL TRANSCEIVERS INCLUDING THERMAL  
DISTRIBUTING AND ELECTROMAGNETIC SHIELDING SYSTEMS  
AND METHODS THEREOF**

**ABSTRACT OF THE DISCLOSURE**

5           An optical transceiver includes structures that define an  
electrical connector port for allowing connection of an  
electrical connector to an optical subassembly of the  
transceiver, and structures that define a vent surrounding at  
least portions of the connector port, whereby the vent allows  
10       bidirectional passage of air therethrough. Included in the  
transceiver are structures that define electromagnetic  
interference shielding and selectively transfer heat of heat  
generating electronic components by conduction to a transceiver  
housing. Methods of cooling the transceiver by ventilation and  
15       internal heat conduction are present.